



U.S. Department of Energy
Washington State Department of Ecology
U.S. Environmental Protection Agency

2015 Hanford Lifecycle Scope, Schedule and Cost Report

February 2015

The Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report) is a milestone requirement (M-036-01) under the *Hanford Federal Facility Agreement and Consent Order*, commonly referred to as the Tri-Party Agreement (TPA). The Lifecycle Report describes the scope, schedule and cost for completion of the Hanford Site cleanup mission. The report reflects the cleanup work that must be completed by both of the U.S. Department of Energy (DOE) Environmental Management (EM) project offices [Richland Operations Office (RL) and Office of River Protection (ORP)] under the TPA; the *Consent Decree and Tri-Party Agreement* modifications settling *State of Washington v. the U.S. Department of Energy*; and in the *Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste, Washington State Department of Ecology Nuclear Waste Program, September 2010 Permit Number: WA7 89000 8967 Revision Number: 8C, September 30, 2013*.

The Lifecycle Report serves as a foundation for preparing federal budget requests and for informational briefings to affected Tribal Governments and Hanford stakeholders. The report shall also serve as the basis for annual discussions with the U.S. Environmental Protection Agency (EPA) and the Washington State Department of Ecology (Ecology).

The 2015 Lifecycle Report information reflects scope, schedule and cost information current as of August 31, 2014, escalated for inflation. The ORP planning case in this report is the same as that presented in previous reports, based on the *River Protection Project System Plan* (ORP-11242, Rev. 4) in order to remain consistent with ORP's last certified baseline and approved baseline change request. ORP expects to update the cost and schedule planning case in the Lifecycle Report when a new baseline is approved and in place.

The 2015 Lifecycle Report *Does*:

- Provide project scope, schedule and cost from fiscal year (FY) 2015 – FY 2090 for both DOE Hanford project offices, and will be modified annually;
- Include scope, schedule and cost information across the entire Hanford Site regardless of whether the cleanup decision has been made;
 - **Appendix A** describes the multiple kinds of cleanup decisions to be made and identifies decisions that are considered to be final
 - **Appendix B** describes future actions required to complete cleanup and presents information on plausible alternatives for future cleanup actions
- Include current regulatory decisions, scope, schedule, and cost estimate revisions;
- Overlap with the funding approval process for the current budget execution year and with the DOE Headquarters and Office of Management and Budget review of funding requirements for the next fiscal year;
- Include post closure Long-Term Stewardship (LTS)/institutional controls, safeguards and security, pension costs, community and regulatory agency support;
- Provide a listing of all existing Hanford cleanup decisions.

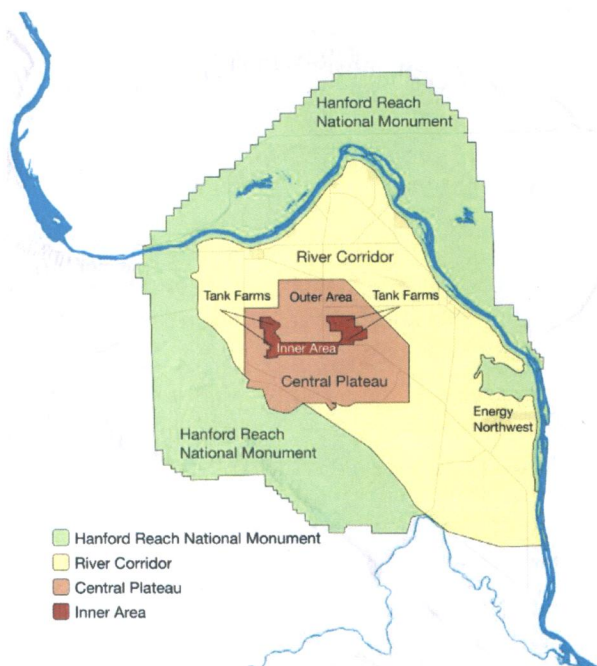
The 2015 Lifecycle Report *Does Not*:

- Include DOE Office of Science funded work, Natural Resource Damage Assessment and Restoration liabilities, or leased lands such as U.S. Ecology;
- Make or replace any cleanup decisions, nor is it a *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* or *Resource Conservation and Recovery Act of 1976* decision document;
- Substitute for, nor preempt, the cleanup decision processes as set forth in the TPA.

Background/What's New in the 2015 Lifecycle Report

Hanford Scope

Hanford Site cleanup consists of three major scope components: 1) River Corridor, 2) Central Plateau and 3) Tank Waste. The Tank Waste component is contained geographically within the Central Plateau area. Cleanup also includes mission support activities related to safeguards and security, community and regulatory support, Hanford Site infrastructure and services, and LTS.



Hanford Site map showing Hanford's principal areas designated for cleanup purposes

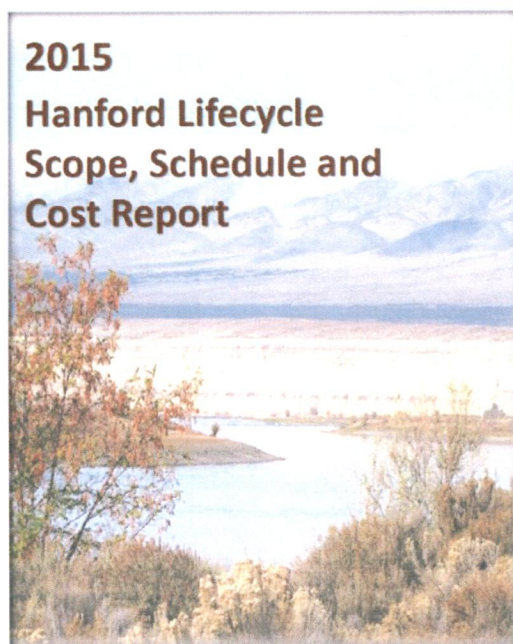
The scope of Hanford Site cleanup work is broken down into a series of Project Baseline Summaries (PBS); ten for RL and two for ORP. Details of these PBSs are identified in the Lifecycle Report (see Chapters 3.0 to 6.0).

TPA Milestone

On October 25, 2010, the Tri-party agencies (DOE, EPA and Ecology) added a new milestone (M-036-01) to the TPA, requiring that DOE submit a *Hanford Lifecycle Scope, Schedule and Cost Report* to EPA and Ecology by January 31 each year.

Significant Changes to the 2015 Report

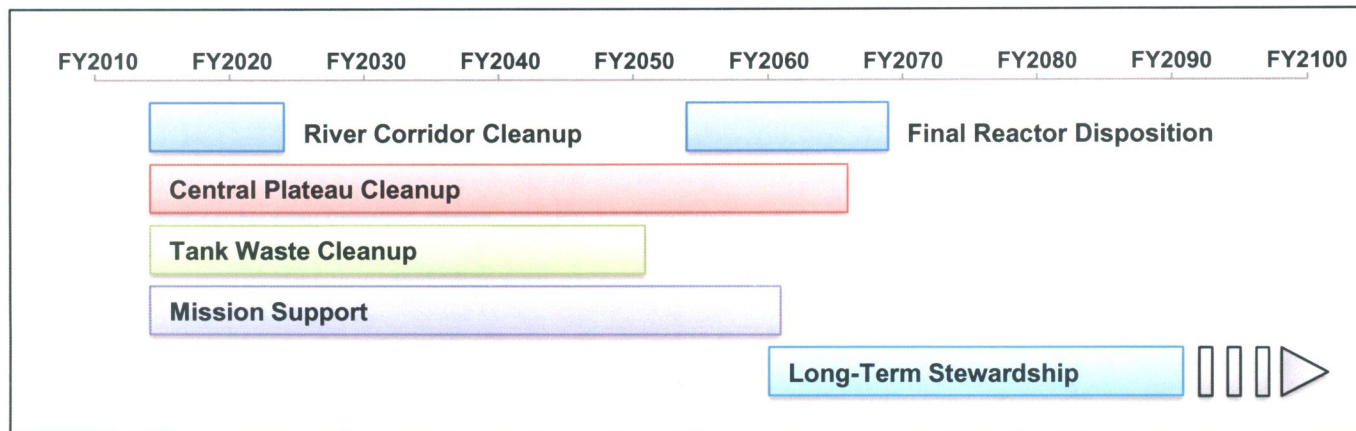
- Updated cost and schedule planning basis for each PBS to incorporate updated scope, regulatory changes, and contract changes so this information reflects RL and ORP planning cases.
- Included explanations of significant cost changes from the 2014 Lifecycle Report.
- In response to feedback, tables of key TPA milestones are included as part of the PBS scope description.
- The Tank Waste cleanup cost and/or schedule uncertainty has been clarified in Section 5.3.
- Reduced the size of the report and made it easier to read. Schedule figures in previous Lifecycle Reports were removed with concurrence of the Tri-party agencies because this information is provided in other Lifecycle Report figures and tables.



Hanford Schedule and Cost Estimates

Hanford Schedule

The schedule below represents the projected duration of cleanup operations at Hanford. Though most cleanup on site will be complete by 2060, this schedule includes uncertainty to allow for time-related risk impacts and other project uncertainties. After 2060, when cleanup is expected to be complete, most, if not all, of the cleaned up areas will be transferred into LTS and eventually Legacy Management. DOE will maintain a presence at Hanford for the foreseeable future.

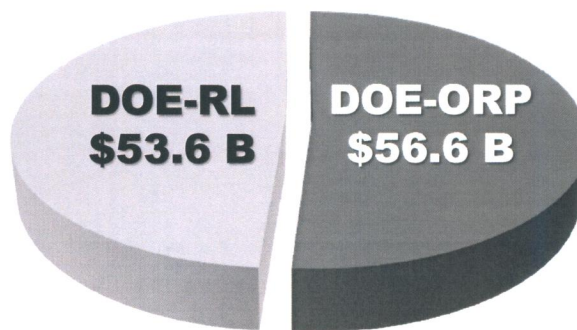


Scale dates represent start of fiscal year

Hanford Cost

Hanford's remaining cleanup costs through FY2090 are estimated to be about \$110.2 billion. DOE-RL scope accounts for about \$53.6 billion. DOE-ORP scope accounts for about \$56.6 billion.

These include estimates to account for cost uncertainty because many of the final cleanup decisions have not been made. Once these decisions are made, estimates will be reflected in future Lifecycle Reports.



Hanford Site cost estimate
FY2015 - FY2090 \$110.2 billion

Cost Estimate Alternative Analysis

The Tri-party agencies reviewed the alternative analyses included in the 2011, 2012 and 2013 Lifecycle Reports, the level of effort required to conduct those analyses and the benefits and insights gained from those analyses.

After considering the remaining cleanup actions to be analyzed (Appendix B, Table B-6), the timing of anticipated regulatory decisions, the potential benefits and the effort required to conduct the analyses, the Tri-party agencies agreed that the 2015 Lifecycle Report would not include an alternative analysis.

Outreach

- The 2015 Lifecycle Report was submitted to EPA and Ecology by January 31, 2015, to help inform decision makers about schedule and prioritization.
- Request for feedback will be an ongoing part of the annual report preparation process.
- Input from Tribal Governments, State of Oregon, Hanford stakeholders, and the public will support future Lifecycle Report development. Feedback received on the 2015 Lifecycle Report will be considered for inclusion into the 2016 and future Lifecycle Reports.

The 2015 Hanford Lifecycle Report is available at www.hanford.gov on the rotating banner.

Feedback received on the 2011-2014 Lifecycle Reports is located on the Hanford website at: www.hanford.gov under the "Quick Links" on the right side of the main page.

The Lifecycle Report is also available for review at the Public Information Repositories:

University of Washington, Suzzallo Library
Government Publication Division
Box 352900, Seattle, WA 98195-2900
(206) 543-4664
www.lib.washington.edu/govpubs/

Portland State University, Branford Price Millar Library
1875 SW Park Avenue
Portland, OR 97207-1151
(503) 725-4709
<http://library.pdx.edu/>

U.S. Department of Energy Public Reading Room
Washington State University, Tri-Cities
Consolidated Information Center, Room 101-L
2770 Crimson Way, Richland, WA 99352
(509) 375-3308
<http://reading-room.labworks.org>

Gonzaga University, Foley Center
502 East Boone Ave.
Spokane, WA 99258-0001
(509) 323-6110
www.gonzaga.edu/Academics/Libraries/Foley-Library/

TPA Administrative Record and Public Information Repository
2440 Stevens Center, Room 1101
P.O. Box 950, Mail Stop H6-08
Richland, WA 99352
(509) 376-2530
<http://www5.hanford.gov/arpir/>

Public input needs to be in writing and submitted by April 30, 2015.



Please E-mail feedback to: LCSSC@rl.gov

or mail to:

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